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United States
Department of
Agriculture

Soil
Conservation
Service

Boise,
Idaho

Idaho Water Supply Outlook



February 1, 1987



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Idaho Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
Washington, D.C.

Released by

Stanley N. Hobson
State Conservationist
Soil Conservation Service
Boise, Idaho

Prepared by

Gerald A. Beard
Data Collection Office Supervisor
Soil Conservation Service
Rm. 345, 304 N. 8th Street
Boise, Idaho 83702

In cooperation with

A. Kenneth Dunn
Director
State of Idaho
Department of Water Resources
Boise, Idaho

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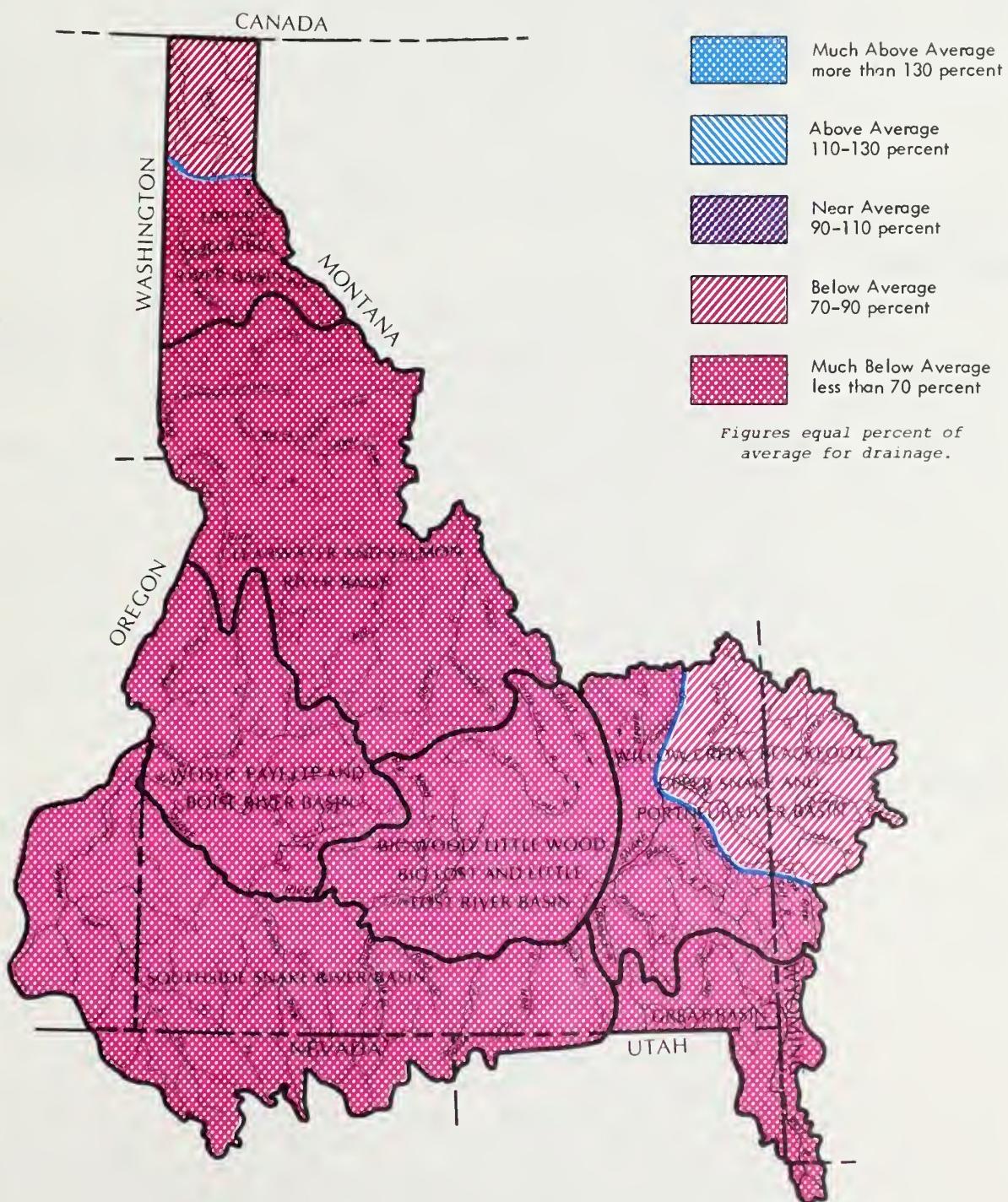
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STREAMFLOW PROSPECTS IDAHO

0 25 50 75 100 MI

0 50 100 150 KM

LEGEND



Figures equal percent of average for drainage.

GENERAL OUTLOOK

SUMMARY:

IDAHO RECEIVED ONLY ABOUT HALF OF ITS NORMAL JANUARY SNOWFALL, DOING LITTLE TO IMPROVE THE BELOW AVERAGE SNOWPACKS MEASURED A MONTH AGO. FEBRUARY 1 STREAMFLOW FORECASTS FOR THE APRIL-JULY PERIOD HAVE BEEN REDUCED FROM THE JANUARY 1 PREDICTIONS TO REFLECT THE BELOW NORMAL JANUARY PRECIPITATION. WELL ABOVE NORMAL PRECIPITATION WILL BE NEEDED FOR THE REMAINDER OF THE SNOW ACCUMULATION SEASON TO PREVENT EXTREMELY LOW RUNOFF CONDITIONS ON MANY BASINS THIS SPRING AND SUMMER. GOOD RESERVOIR STORAGE ACROSS THE STATE WILL HELP OFFSET WATER SHORTAGES IN BASINS HAVING THE BENEFIT OF STORED WATER.

SNOWPACK:

February 1 snow surveys show snow accumulation during January continued to be below to well below normal over most of the state. Only a few lower elevation sites across extreme southern Idaho reported near normal increases for the month. Although precipitation was below normal for the month, most basins across southern Idaho with extremely low snowpack conditions on January 1 show a slight improvement in comparison to normal for the water year. On the other hand, northern Idaho snowpacks deteriorated slightly in comparison to normal since the 1st of January. Currently, snowpack conditions range from 65% to 72% of normal in northern Idaho, 30% to 60% of normal in the central and southern part of the state, and 50% to 65% of normal on the Upper Snake in eastern Idaho and western Wyoming.

PRECIPITATION:

Unusually dry conditions persisted into January as precipitation amounts were generally well below normal. Northern Idaho, which was the only area near normal in December, dropped to 65% to 75% of normal in January. The central portion of the state showed a wide range from just 28% of average at Salmon to 74% at Grangeville. Southwest Idaho ranged from 40% to 65% of normal while southeast Idaho varied from 60% to as high as 91% at Pocatello. The Magic Valley was the one exception this month as Twin Falls received 132% of normal. All in all January was much better than December, but precipitation was still below normal over most of the state. Temperatures were near normal in the north and southwest while southcentral and southeast Idaho were some four to five degrees below normal.

RESERVOIRS:

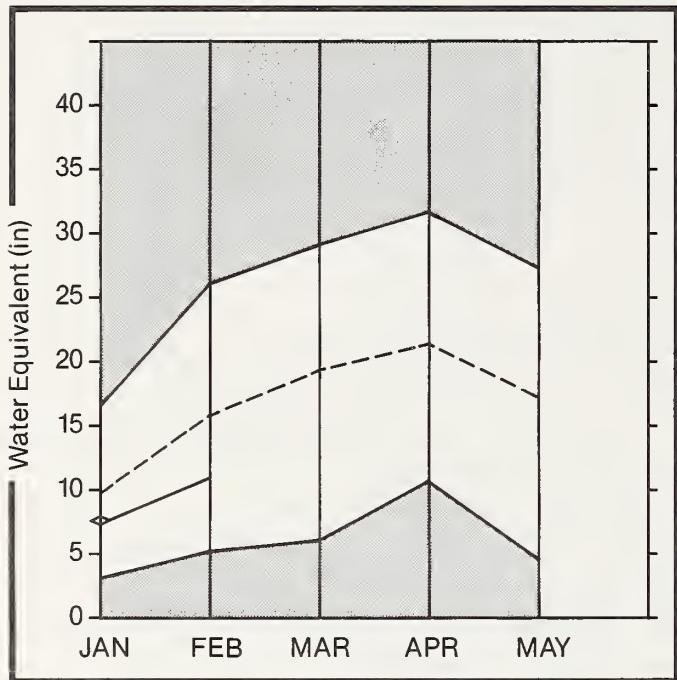
Most reservoirs in Idaho have near or above average storage at the end of January with most ranging from 80% to 130% of normal. Twenty-two major reservoirs sampled across the state report a combined storage at 108% of normal as of February 1. Several reservoirs including Pend Oreille Lake, Coeur d'Alene Lake, Lucky Peak, and Jackson Lake report well below normal contents ranging from 15% to 46% of average. Salmon Falls Reservoir reports well above average storage at 172% of normal. Most basins will rely heavily on stored water this summer to augment low natural streamflow conditions.

STREAMFLOW:

Most April-July seasonal streamflow forecasts have been reduced 5% to 15% from those published last month as a result of the below normal precipitation during January. In northern Idaho (from the Clearwater drainage north) streamflows are now expected to range from 60% to 78% of normal. Forecasts in the central, southern, and southeastern part of the state range from a low of only 35% of average for the inflow to Magic Reservoir and the Little Wood near Carey to 61% of average on the Portneuf at Topaz. April-July streamflows on the Upper Snake basin in eastern Idaho and western Wyoming are forecast to range from 69% to 73% of average. These forecasts indicate that very low streamflows will be the rule this spring and summer across central and southern Idaho. Water users are encouraged to monitor water supplies closely for the remainder of the season and be prepared to implement water conservation practices as needed. This is particularly true on basins without reservoir storage facilities.

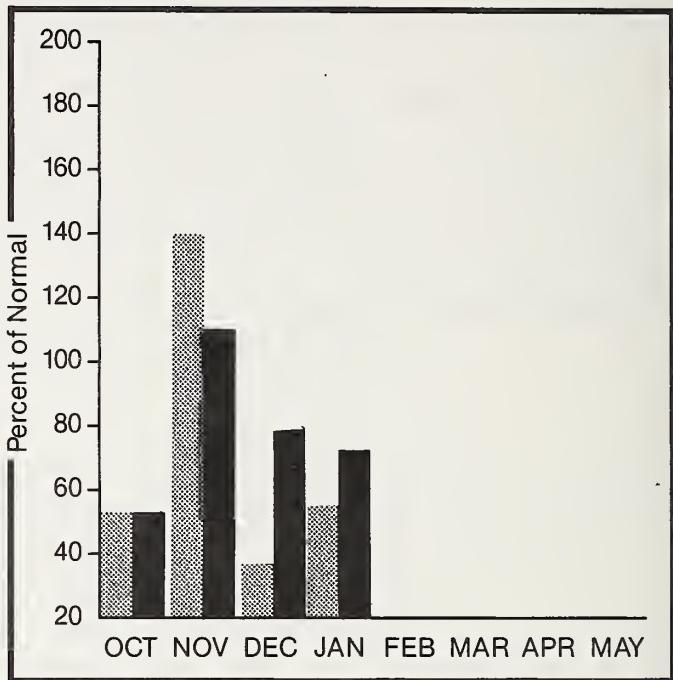
Upper Columbia Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum Average
Minimum Current

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK*

Snow accumulation during the month of January was below to well below the average January increase for the month. As a result, February 1 snow surveys show snowpack conditions have deteriorated in comparison to normal since January 1. Currently, snowpacks range from 69% to 72% of normal throughout the basin with the exception of the Rathdrum Creek drainage which reports 88% of normal snowpack. April-July streamflow forecasts have been reduced from the January 1 predictions and now range from 64% of normal on the Coeur d'Alene at Enaville to 78% on the Priest River at Priest. Reservoir carryover storage remains below normal in most major lakes and reservoirs.

For more information contact your local Soil Conservation Service office.

UPPER COLUMBIA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AUG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	FEAS. MAX. (% AVG.)	FEAS. MIN. (1000AF)	FEAS. MIN. (% AVG.)
KOOTENAI at Leonia 2	APR-SEP	8602.0	7640.0	89	9530.0	111	5750.0	67
	APR-JUL	7498.0	6660.0	89	8310.0	111	5010.0	67
	APR-JUN	6051.0	5390.0	89	6720.0	111	4060.0	67
CLARK FORK at White Horse Rapids 2	APR-SEP	13575.0	10300.0	76	14100.0	104	6500.0	48
	APR-JUL	12351.0	9390.0	76	12900.0	104	5930.0	48
	APR-JUN	10570.0	8040.0	76	11000.0	104	5080.0	48
PEND OREILLE LAKE inflow 2	APR-SEP	15150.0	11300.0	75	15500.0	102	7060.0	47
	APR-JUL	13875.0	10400.0	75	14300.0	103	6500.0	47
	APR-JUN	12010.0	9010.0	75	12400.0	103	5650.0	47
PRIEST RIVER at Priest 2	APR-SEP	885.0	690.0	78	980.0	111	400.0	45
	APR-JUL	832.0	650.0	78	925.0	111	375.0	45
SPOKANE at Post Falls 2	APR-SEP	2848.0	1680.0	59	3160.0	111	200.0	7
	APR-JUL	2754.0	1660.0	60	3090.0	112	230.0	8
ST. JOE at Calder	APR-SEP	1224.0	855.0	66	1230.0	95	480.0	37
	APR-JUL	1225.1	795.0	65	1150.0	94	440.0	36
COEUR D'ALENE at Enaville	APR-SEP	844.2	540.0	64	940.0	111	140.0	17
	APR-JUL	804.8	515.0	64	890.0	111	140.0	17

RESERVOIR STORAGE (1000AF) | WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF LAST YR.	AVERAGE
	THIS YEAR	LAST YEAR	AVG.	Avg'0		
HUNGRY HORSE	3451.0	2402.0	2295.0	2410.0	Kootenai ab Bonners Ferry	46
FLATHEAD LAKE	1791.0	840.2	1124.0	1145.0	Pend Oreille River	125
PEND OREILLE	1561.2	212.7	755.6	831.8	Clark Fork River	86
NOXON RAPIDS	335.0	295.8	158.8	313.0	Friest River	5
COEUR D'ALENE	291.2	88.2	125.4	220.9	Rathdrum Creek	2
PRIEST LAKE	97.7	29.8	33.3	34.4	Havden Lake	0
					Coeur d'Alene River	9
					St. Joe River	6
					Spokane River	15
					Palouse River	0
						0

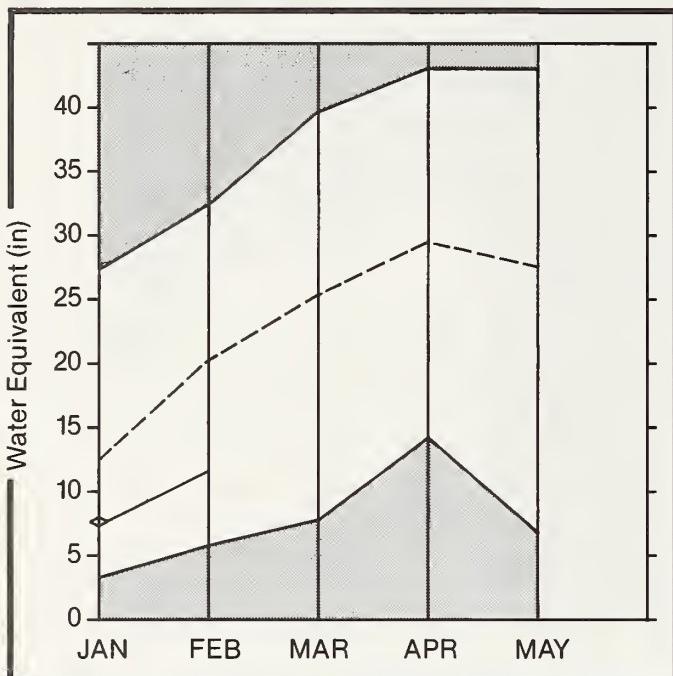
1 - Peas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

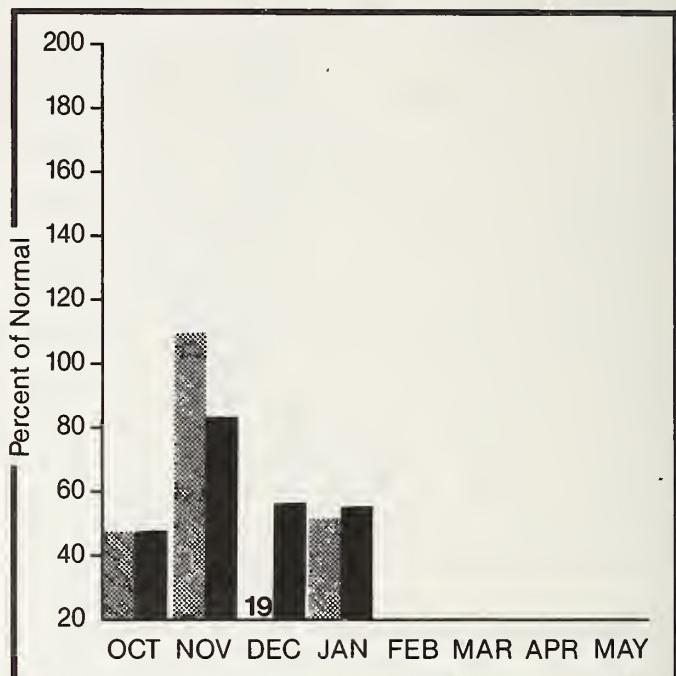
The average is computed for the 1961-85 base period.

Clearwater and Salmon River Basin

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum



Average



Minimum



Current



Monthly precipitation



Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow surveys taken near February 1 show little or no change in the snowpack. Conditions remain below to well below normal throughout the basin ranging from 48% of average on the Salmon River above Salmon to 71% of average on the Lochsa River drainage. April-July streamflow forecasts remain below to well below normal ranging from 58% on the Salmon at Whitebird to 65% on the Clearwater at Spalding. Carryover storage in Dworshak Reservoir is excellent at 116% of average for February 1.

For more information contact your local Soil Conservation Service office.

CLEARWATER AND SALMON RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR, AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAY. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
CLEARWATER at Orofino	APR-SEP	5185.0	3420.0	66	5290.0	102	1550.0	30
	APR-JUL	4917.0	3200.0	65	4970.0	101	1430.0	29
CLEARWATER at Spalding	APR-SEP	8460.0	5580.0	66	8800.0	104	2360.0	28
	APR-JUL	8000.0	5220.0	65	8260.0	103	2180.0	27
DWORSHAK RESERVOIR inflow	APR-SEP	2985.0	1940.0	65	3160.0	106	715.0	24
	APR-JUL	2805.0	1810.0	65	2960.0	106	660.0	24
SALMON at Whitebird	APR-SEP	6876.0	4060.0	59	6330.0	92	1790.0	26
	APR-JUL	6211.0	3600.0	58	5650.0	91	1550.0	25
SALMON at Salmon	APR-SEP	1053.0	635.0	60	1080.0	103	193.0	18
	APR-JUL	899.0	545.0	61	920.0	102	167.0	19

RESERVOIR STORAGE	(1000AF)		WATERSHED SNOWPACK ANALYSIS
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RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.				
DWORSHAK	3467.8	2424.7	2395.9	2084.1	North Fork Clearwater	13	93	65
					Lochsa River	4	105	71
					Selway River	1	105	69
					Clearwater River	15	96	67
					Salmon River & Salmon	7	62	51
					Lemhi River	1	90	56
					Salmon River Total	19	70	53

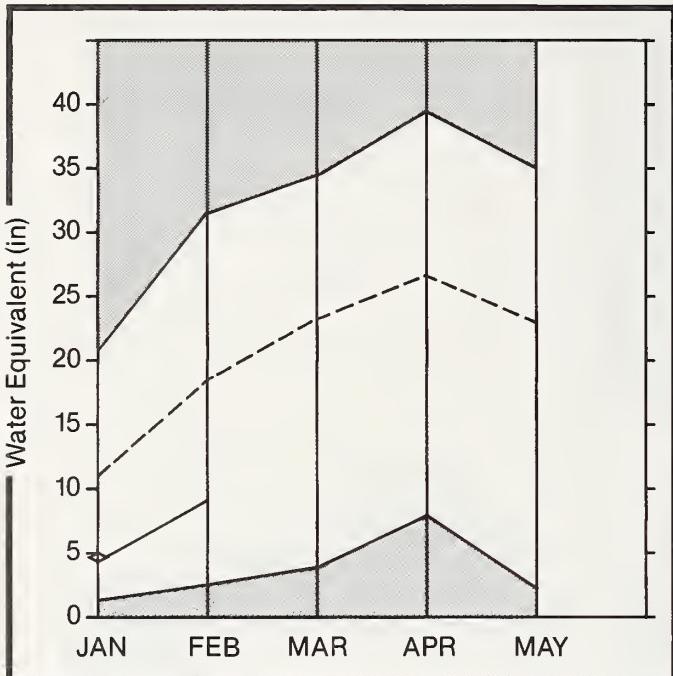
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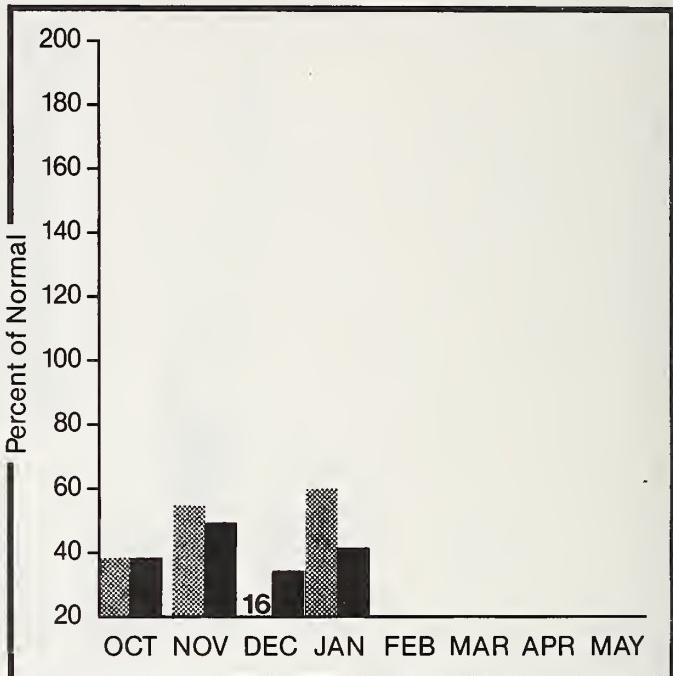
Weiser, Payette, and Boise River Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum ———
Minimum ———

Average - - - -
Current ← ———

Monthly precipitation ■
Year to date precipitation ■

WATER SUPPLY OUTLOOK:

In comparison to normal, snowpack conditions show a slight improvement from those reported a month ago even though the January snowfall was well below normal. Basin snowpack conditions remain very low, ranging from 40% to 59% of average. April-July seasonal volume forecasts have been reduced to reflect the low precipitation during January and now range from 48% to 52%. Carry over storage is near or above normal on all major reservoirs except Lucky Peak which is reported at only 46% of normal and only 18% of capacity. Given the current snowpack conditions and the anticipated irrigation demands, the Boise Reservoir Storage system may not fill to capacity, however, adequate water supply is expected to meet users needs.

For more information contact your local Soil Conservation Service office.

WEISER, PAYETTE AND BOISE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST	25 YR.	MOST	MOST	REAS.	REAS.	REAS.	REAS.
	PERIOD	Avg. (1000AF)	Probable (1000AF)	% Avg.)	Max. (1000AF)	Max. (% Avg.)	Min. (1000AF)	Min. (% Avg.)
WEISER nr Weiser	APR-SEP	427.0	215.0	50	470.0	110	149.0	35
	APR-JUL	399.0	200.0	50	440.0	110	139.0	35
PAYETTE nr Horseshoe 2	APR-SEP	1805.0	920.0	51	1500.0	83	445.0	25
	APR-JUL	1668.0	835.0	50	1370.0	82	355.0	21
NF PAYETTE at Cascade 2	APR-SEP	553.5	295.0	53	460.0	83	130.0	23
	APR-JUL	517.9	270.0	52	425.0	82	115.0	22
NF PAYETTE nr Banks 2	APR-SEP	712.5	370.0	52	545.0	76	190.0	27
	APR-JUL	671.5	345.0	51	510.0	76	175.0	26
SF PAYETTE at Lowman	APR-SEP	497.2	255.0	51	380.0	76	130.0	26
	APR-JUL	440.6	225.0	51	335.0	76	115.0	26
DEADWOOD RESERVOIR inflow	APR-JUL	141.0	74.0	52	113.0	80	35.0	25
BOISE RIVER nr Twin Springs 1	APR-SEP	705.5	375.0	53	560.0	79	190.0	27
	APR-JUL	650.1	340.0	52	510.0	78	170.0	26
SF BOISE at Anderson Dam 1	APR-SEP	589.6	290.0	49	420.0	71	160.0	27
	APR-JUL	551.4	265.0	48	385.0	70	145.0	26
BOISE RIVER nr Boise 1	APR-SEP	1571.5	820.0	52	1355.0	86	285.0	18
	APR-JUL	1454.4	760.0	52	1255.0	86	265.0	18
	APR-JUN	1279.5	655.0	51	1090.0	85	220.0	17

PESERVOIR STORAGE				WATERSHED SNOWPACK ANALYSIS				
PESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **		WATERSHED	NO. COURSES	THIS YEAR AS % OF		
	I	THIS YEAR	LAST YEAR	AVG.	Avg'D	Last Yr.	Average	
MANN CREEK	11.3	3.2	3.5	6.8	Mann Creek	0	0	0
CASCADE	703.2	465.4	465.6	393.8	Weiser River	5	75	54
DEADWOOD	162.0	88.0	84.9	84.5	North Fork Payette	8	75	59
ANDERSON RANCH	464.2	369.1	304.1	282.1	South Fork Payette	6	58	45
ARROWROCK	286.6	239.3	251.2	234.8	Payette River Total	13	68	53
LUCKY PEAK	307.0	56.7	36.0	122.5	Middle & North Fork Boise	9	52	45
LAKE LOWELL (DEER FLAT)	177.0	129.1	139.9	140.6	South Fork Boise River	8	46	40
					Boise River Total	17	51	43
					Canary Creek	1	57	47

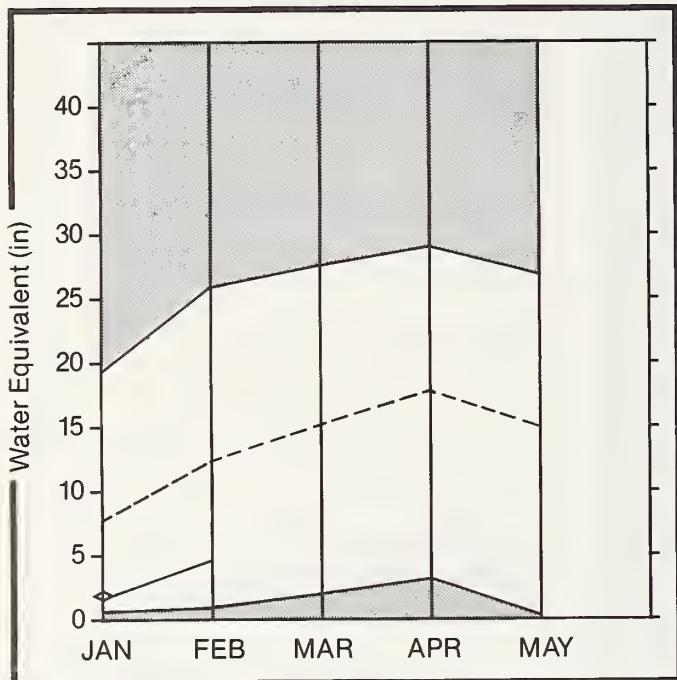
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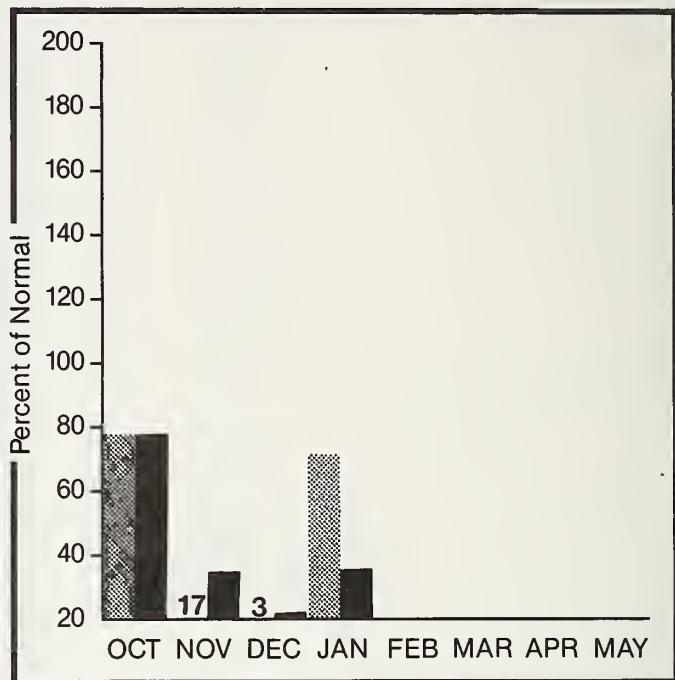
The average is computed for the 1961-85 base period.

Big Wood, Little Wood, Big Lost, and Little Lost River Basin

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum |||||

Average -----

Minimum |||||

Current ———



Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK*

February 1 snowpack conditions show some improvement from the January 1 figures but remain extremely low throughout the basin. Snowpacks now range from only 27% of normal on the Little Wood basin to 41% of normal on the main stem of the Big Wood River. Although the snowpack figures show some improvement for the water year, snow accumulation during January remained well below normal resulting in the April-July streamflow forecasts being reduced. Forecasts now range from 35% of normal on the inflow to Magic Reservoir to 53 % on the Little Lost near Howe. Reservoir carryover storage is near or above normal on most reservoirs which will help offset the anticipated low runoff conditions.

For more information contact your local Soil Conservation Service office.

BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG.	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	PEAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	PEAS. MIN. (% AVG.)
BIG WOOD nr Bellevue	APP-SEP	193.4	77.0	40	164.0	85	21.0	11
	APR-JUL	179.9	72.0	40	153.0	85	16.0	9
MAGIC RESERVOIR inflow	APR-SEP	307.0	107.0	35	330.0	107	24.0	8
	APR-JUL	293.0	103.0	35	315.0	108	18.0	6
LITTLE WOOD nr Carev	APP-SEP	101.0	35.0	35	68.0	67	21.0	21
	APR-JUL	93.1	33.0	35	64.0	69	18.0	19
BIG LOST at Howell Ranch	APR-SEP	211.2	95.0	45	175.0	83	83.0	39
	APR-JUL	186.2	86.0	46	157.0	84	83.0	45
	APP-JUN	144.4	68.0	47	123.0	85	65.0	45
BIG LOST nr Mackay 2	APR-SEP	183.7	83.0	45	153.0	83	75.0	41
LITTLE LOST b1 Wet Ck	APR-SEP	38.8	19.0	49	34.0	88	13.0	34
	APR-JUL	31.4	16.0	51	28.0	89	12.0	38
LITTLE LOST nr Howe	APR-SEP	42.2	22.0	52	38.0	90	10.0	24
	APR-JUL	32.6	17.3	53	29.0	89	8.0	25

RESERVOIR	RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			Avg'D	LAST YR.	AVERAGE
MAGIC	191.5	114.5	93.4	102.4	Big Wood ab Magic	10	47	41	
LITTLE WOOD	30.0	20.5	21.6	17.6	Camas Creek	3	45	35	
CAREY VALLEY	14.4	6.6	4.4	---	Big Wood Total	12	46	39	
MACKAY	44.4	32.8	25.3	32.6	Little Wood River	4	32	27	
					Fish Creek	0	0	0	
					Big Lost River	4	43	36	
					Little Lost River	4	47	36	

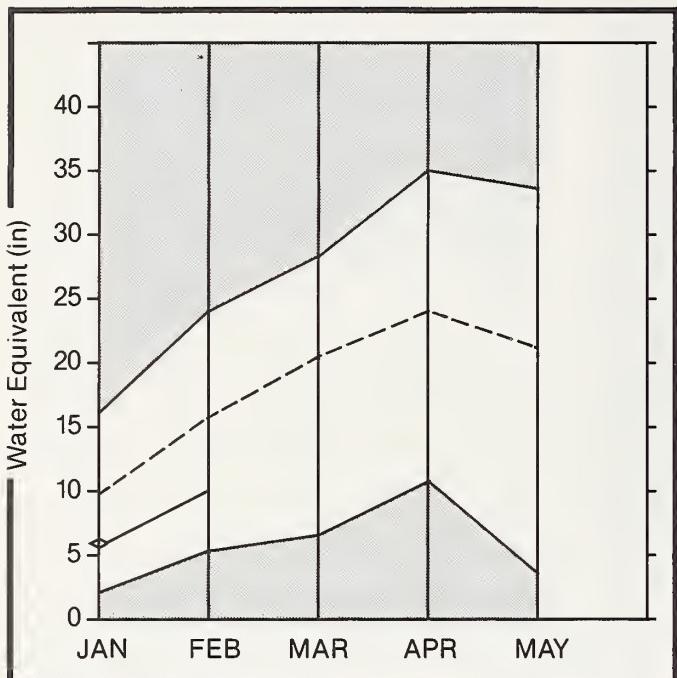
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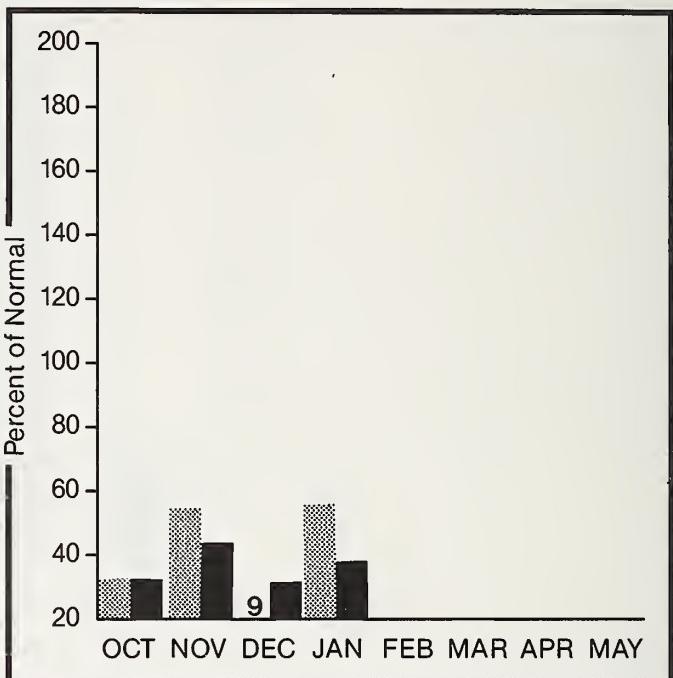
Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum ——————
Average -----
Minimum ——————
Current ◆—————

Monthly precipitation [hatched bar]
Year to date precipitation [solid bar]

WATER SUPPLY OUTLOOK*

Snowpack conditions remain generally unchanged or show slight improvement in comparison to normal from those reported January 1. Snowpacks remain well below average throughout the basin, ranging from 42% of normal on the Beaver-Camas Creek basin near Dubois to 68% on the Teton basin. One exception is in the extreme headwaters of the Gros Ventre River in Wyoming where the snowpack is 85% of normal. Although snowpack figures show some improvement for the water year, January snow accumulation was below normal resulting in the April-July forecasts being reduced from those reported a month ago. Forecasts now range from 61% of normal on the Portneuf at Topaz to 73% on the Snake at Moran. Carryover storage is good in most reservoirs which will supplement the anticipated low runoff conditions and water supplies should be adequate for most irrigators having the benefit of stored water.

For more information contact your local Soil Conservation Service office.

WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
HENRY'S FORK nr Ashton 2	APR-SEP	714.1	510.0	71	595.0	83	425.0	60
	APR-JUL	529.1	370.0	70	435.0	82	310.0	59
HENRYS FORK nr Rexburg 2	APR-SEP	1469.0	1050.0	71	1400.0	95	695.0	47
	APR-JUL	1148.0	805.0	70	1080.0	94	530.0	46
FALLS RIVER nr Squirrel	APR-JUL	366.0	255.0	70	335.0	92	175.0	48
TETON RIVER ab S Leigh Ck	APR-SEP	193.9	138.0	71	167.0	86	109.0	56
	APR-JUL	145.0	102.0	70	124.0	86	80.0	55
TETON nr St. Anthony	APR-SEP	465.0	325.0	70	405.0	87	245.0	53
	APR-JUL	375.0	260.0	69	325.0	87	195.0	52
SNAKE at Moran 1	APR-SEP	880.0	640.0	73	835.0	95	445.0	51
PALISADES LAKE inflow 1	APR-SEP	3793.0	2650.0	70	3675.0	97	1625.0	43
SNAKE nr Heise 2	APR-SEP	4066.5	2790.0	69	3930.0	97	1650.0	41
	APR-JUL	3464.8	2400.0	69	3370.0	97	1430.0	41
SNAKE nr Blackfoot 2	APR-SEP	5537.0	3875.0	70	5150.0	93	2600.0	47
	APR-JUL	4465.0	3060.0	69	4090.0	92	2030.0	45
PORTNEUF at Topaz	MAR-SEP	102.1	61.0	60	99.0	97	23.0	23
	MAR-JUL	82.2	50.0	61	80.0	97	20.0	24

RESERVOIR STORAGE USEABLE CAPACITY THIS YEAR LAST YEAR AVE.					WATERSHED SNOWPACK ANALYSIS WATERSHED NO. COURSES AVG'D THIS YEAR AS % OF LAST YR. AVERAGE			
RESERVOIR								
ISLAND PARK	127.6	108.1	96.0	110.1	Camas-Beaver Creeks	3	35	42
GRASSY LAKE	15.2	12.9	12.9	10.9	Henrys Fork River	7	57	52
JACKSON LAKE	624.4	82.6	149.4	535.9	Teton River	6	71	68
PALISADES	1357.0	1209.0	1069.9	1028.0	Snake above Palisades	31	68	66
AMERICAN FALLS	1700.0	1101.9	1103.3	1277.2	Snake above Jackson Lake	9	59	55
BROWNLEE	975.3	731.9	682.0	531.0	Gros Ventre River	3	77	84
BLACKFOOT	NO REPORT				Greys River	4	60	63
HENRY'S LAKE	90.4	79.4	---	-79.4	Salt River	5	67	63
RIRIE	96.5	40.5	---	51.3	Willow Creek	10	61	63
					Blackfoot River	5	50	54
					Portneuf River	5	52	48
					Toponce Creek	0	0	0

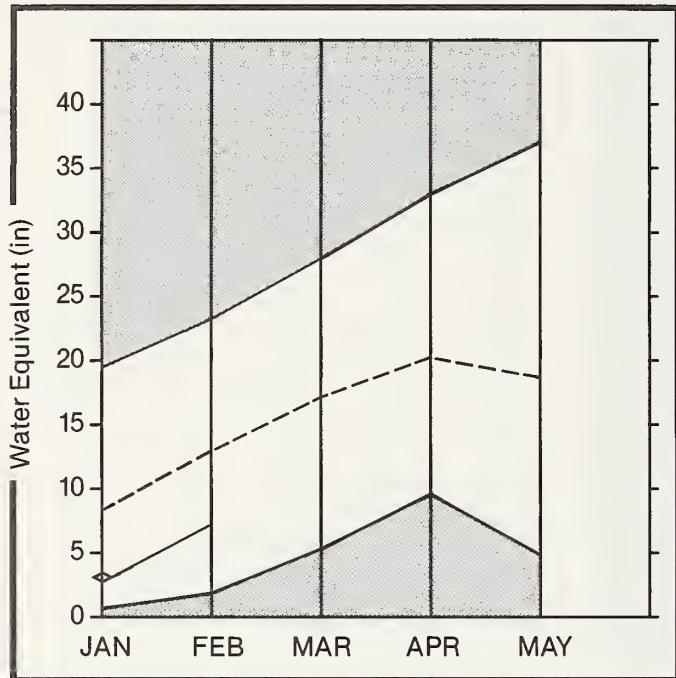
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

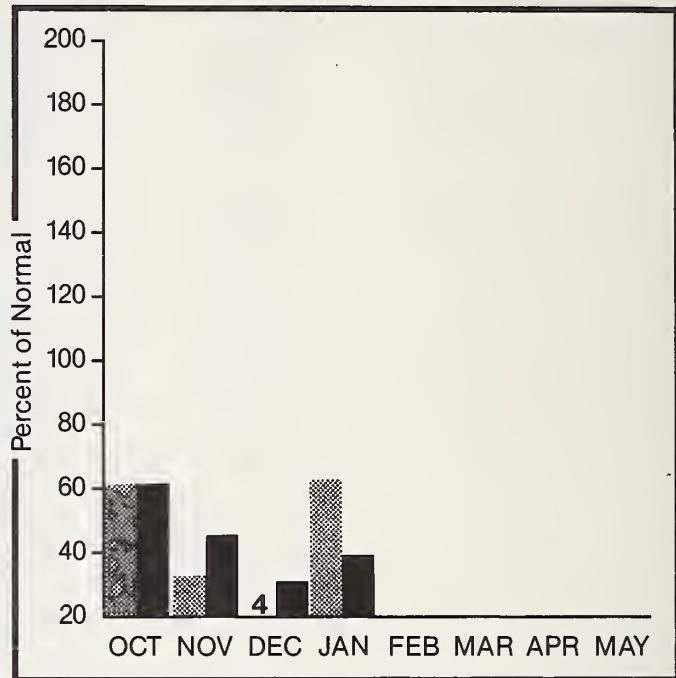
The average is computed for the 1961-85 base period.

Southside Snake River Basin

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum



Average



Minimum



Current



Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK‡

Snow accumulation during January was generally below normal across the basin even though several low elevation stations reported near normal increases for the month. In comparison to normal, February 1 snowpack conditions show a good improvement from the extremely low figures reported a month ago. Current snowpack figures now range from 49% to 54% of average throughout the basin. Streamflow forecasts for the April-July period remain about the same or have been reduced slightly to account for the below average January precipitation. Forecasts now range from 39% to 60% with most basins in the 45% to 50% range. Carryover storage in the major reservoirs is good to excellent assuring most water users an adequate water supply for the 1987 irrigation season.

For more information contact your local Soil Conservation Service office.

SOUTHSIDE SNAKE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
OAKLEY RESERVOIR inflow	APR-SEP	30.2	14.8	49	26.0	86	14.0	46
	APR-JUL	27.2	13.1	48	23.0	85	10.0	37
SALMON FALLS CK nr San Jacinto	MAR-SEP	94.0	45.0	48	84.0	89	17.0	18
	MAR-JUL	89.3	43.0	48	81.0	91	15.0	17
	MAR-JUN	84.4	41.0	49	76.0	90	14.0	17
BRUNEAU nr Hot Spring	MAR-SEP	243.3	122.0	50	225.0	92	83.0	34
	MAR-JUL	231.5	116.0	50	215.0	93	78.0	34
OWYHEE RIVER nr Gold Creek 2	APR-JUL	30.4	12.0	39	34.0	112	3.0	10
OWYHEE RIVER nr Owyhee 2	APR-JUL	85.4	34.0	40	88.0	103	10.0	12
OWYHEE LAKE inflow 1	APR-SEP	376.0	225.0	60	415.0	110	59.0	16
	APR-JUL	349.0	210.0	60	385.0	110	46.0	13
OWYHEE at Rome 2	APR-JUL	376.0	225.0	60	410.0	109	37.0	10

RESERVOIR STORAGE (1000AF)				WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **	WATERSHED	NO. COURSES	THIS YEAR AS % OF			
	THIS YEAR	LAST YEAR AVG.		Avg'0	Last Yr.	Average		
OAKLEY	77.4	28.4	37.1	29.9	Raft River	1	46	54
SALMON FALLS	182.6	92.9	92.8	53.9	Goose-Trapper Creeks	1	55	63
OWYHEE	715.0	488.9	470.0	443.9	Salmon Falls Creek	9	54	53
					Brunneau River	8	52	50
					Owyhee River	14	53	54

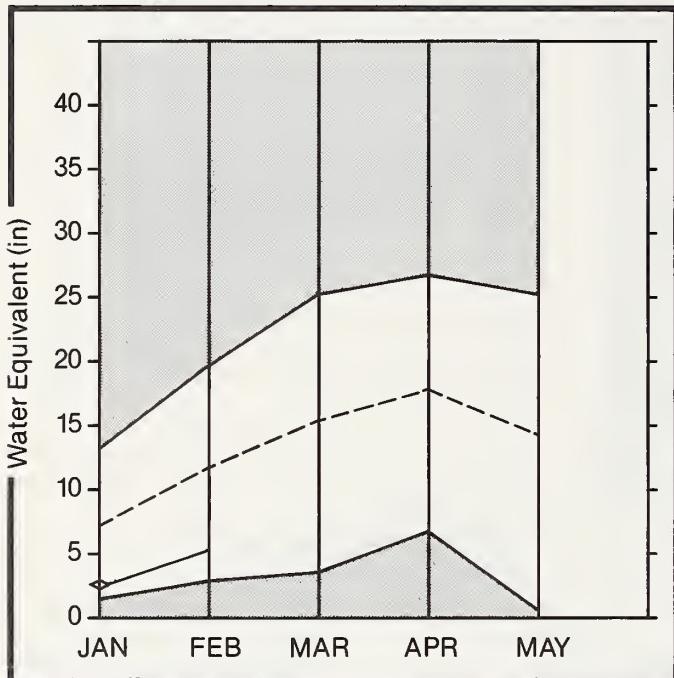
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2 - Corrected for upstream diversions or changes in reservoir storage.

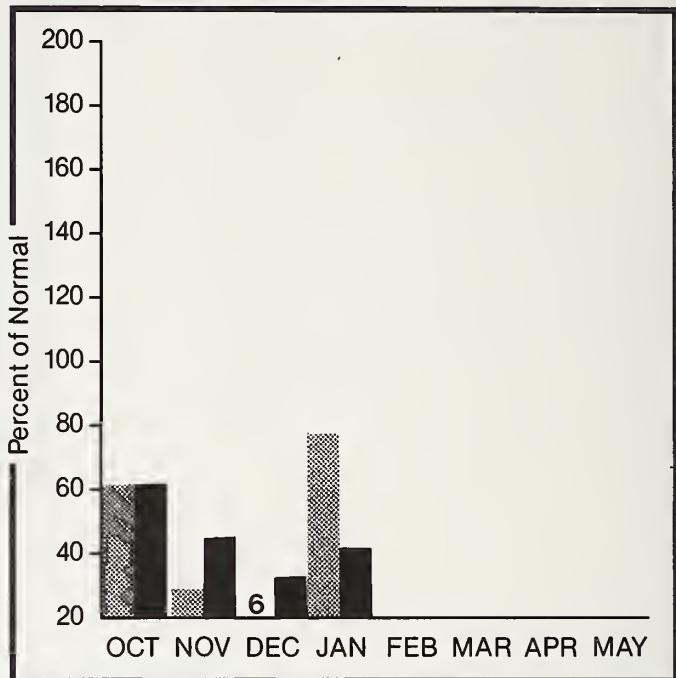
The average is computed for the 1961-85 base period.

Great Basin

Mountain snowpack* (inches)



Precipitation* (percent of normal)



*Based on selected stations

*Based on selected stations

Maximum



Average



Minimum



Current



Monthly precipitation



Year to date precipitation



WATER SUPPLY OUTLOOK:

February 1 snow measurements show snowpack conditions remain well below normal and about the same as reported last month. Snowpack conditions currently range from 48% to 54% of average throughout the basin. April-July seasonal streamflow volume forecasts have been reduced to reflect the below average snow accumulation during January. Forecasts now range from 45% of normal on the Bear at Harer to 60% on the Cub River near Preston. Reservoir carryover storage is slightly above normal for February 1 on Montpelier Creek and Bear Lake, assuring irrigators below these reservoirs an adequate water supply for the 1987 irrigation season.

For more information contact your local Soil Conservation Service office.

GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST	25 YR.	MOST	MOST	REAS.	REAS.	REAS.	REAS.
	PERIOD	Avg.	Probable	Probable	Max.	Max.	Min.	Min.
		(1000AF)	(1000AF)	(% Avg.)	(1000AF)	(% Avg.)	(1000AF)	(% Avg.)
BEAR at Harer	APR-SEP	310.0	140.0	45	250.0	81	50.0	16
MONTPELIER CK nr Montpelier	APR-SEP	13.9	7.0	50	13.0	93	3.0	22
CUB RIVER nr Preston	APR-SEP	51.8	31.0	60	48.0	93	14.0	27
	APR-JUL	46.8	28.0	60	43.0	92	13.0	28

RESERVOIR STORAGE					WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES	THIS YEAR AS % OF		
	1 YEAR	THIS YEAR	LAST YEAR	AVG.			Avg'd	Last Yr.	
BEAR LAKE	1421.0	1052.9	1057.7	992.5	Bear River (above Harer)	11	52	54	
MONTPELIER CREEK	3.9	1.9	1.8	1.7	Montpelier Creek	6	40	48	
					Mink Creek	5	44	48	
					Cub River	1	52	49	
					Malad River	0	0	0	

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
UPPER COLUMBIA BASIN													
							WATERSHEO I						
ABOVE BURKE	4100	1/30/87	30	9.0	10.4	14.2	MOUNTAIN MOWS PILLOW	6360	2/01/87	---	10.7	8.7	18.3
ABOVE ROLANO	4350	2/01/87	---	14.1E	13.8	20.8	NEZ PERCE PASS	6570	2/01/87	---	8.0e	--	10.9
BEAR MOUNTAIN	5400	2/01/87	---	37.0E	26.3	41.5	PERREAU MEAOOWS						
BEAR MTN PILLOW	5400	2/01/87	---	36.4	24.8	42.6	PIERCE R.S.	3080	1/30/87	20	5.1	7.8	8.1
BELOW ROLANO							REDFISH LAKE FLAT						
BENTON MEAOOWS	2370	1/30/87	10	2.4	5.0	5.1	ROCK FLAT SUMMIT	5310	1/30/87	36	8.4	8.8	12.6
BENTON SPRING	4920	1/30/87	33	8.6	10.8	13.2	SAOOLE MOUNTAIN	7940	2/01/87	48	11.7	12.8	17.6
BREEZY SAOOLE	5010	1/27/87	53	15.2	13.7	20.6	SAVAGE PASS	6170	1/30/87	45	11.4	13.6	17.7
CHILCO RIOGE							SAVAGE PASS PILLOW	6170	2/01/87	---	13.4	13.3	18.3
CONIE RIOGE							SCHWARTZ LAKE						
COPPER RIOGE	4820	2/01/87	---	12.8E	12.0	18.3	SECESH SUMMIT	6520	2/03/87	54	13.2	16.9	25.1
CORNER CREEK							SECESH SUMMIT PILLOW	6520	2/01/87	---	12.1	16.8	25.4
EAST RAGGED SAOOLE	3740	2/02/87	43	11.8	12.9	13.9	SHANGHAI SUMMIT	4570	1/28/87	44	12.0	13.9	17.8
EAST TWIN							SHANGHAI SUM PILLOW	4570	2/01/87	---	13.5	15.1	19.0
FORTY-NINE MEAOOWS	4830	1/27/87	49	14.0	12.5	20.3	SHERWIN	3200	2/01/87	---	6.5E	7.6	9.8
FOURTH OF JULY SUM	3200	1/30/87	21	6.0	8.3	7.1	SHERWIN PILLOW	3200	2/01/87	---	6.4	7.4	9.5
GRANITE PEAK							SQUAW MEAOOW	5900	2/03/87	57	11.8	16.5	24.3
HUMBOLOT GULCH	4250	1/30/87	31	7.4	7.0	10.7	TWIN LAKES	6510	2/01/87	---	20.7e	--	26.4
HUMBOLOT GLCH PILLOW	4250	2/01/87	---	8.2	6.3	9.7	TWIN PEAKS						
KELLOGG PEAK AM	5560	2/01/87	---	16.6E	17.1	22.4	VIENNA MINE	8960	1/29/87	50	II.3	23.4	25.1
LOOKOUT	5140	1/30/87	54	16.6	17.2	23.6	VIENNA MINE PILLOW	8960	2/01/87	---	11.6	20.1	25.1
LOOKOUT PILLOW	5140	2/01/87	---	17.4	15.6	23.0	WEBB CREEK	4720	1/29/87	24	6.0	5.2	7.5
LOST LAKE	6110	1/27/87	82	25.8	27.9	39.1	WEST BRANCH	5560	1/26/87	39	9.2	11.5	18.2
LOST LAKE PILLOW	6110	2/01/87	---	33.0	30.2	44.4	WEST BRANCH PILLOW	5560	2/01/87	---	10.3	12.5	18.1
LOWER SANOS CREEK	3120	2/01/87	---	8.1E	10.3	12.3	WILLIAMS CREEK SUM						
MOSCOW MOUNTAIN							NO REPORT						
MOSQUITO RIOGE	5200	1/30/87	55	18.8	17.2	26.2							
MOSQUITO PILLOW	5200	2/01/87	---	19.1	16.3	26.3							
ROLANO SUMMIT	5120	2/01/87	---	19.0E	20.0	25.9							
SAGE CREEK SAOOLE													
SCHWEITZER BASIN	6090	1/29/87	72	25.4	23.5	33.0							
SCHWEITZER BN PILLOW	6090	2/01/87	---	29.3	23.2	34.6							
SCHWEITZER BOWL	4800	1/29/87	53	15.3	12.7	21.4							
SCHWEITZER RIOGE	6200	1/29/87	69	24.1	23.3	32.2							
SHERWIN	3200	2/01/87	---	6.5E	7.6	9.8							
SHERWIN PILLOW	3200	2/01/87	---	6.4	7.4	9.5							
SKITWISH RIOGE													
SMITH CREEK													
SUNSET	5540	1/29/87	46	14.1	12.4	22.8							
SUNSET PILLOW	5540	2/01/87	---	18.3	15.6	24.3							
TWIN SPIRIT OIVIOE	3480	2/02/87	34	8.5	10.2	9.1							
WEST TWIN													
CLEARWATER AND SALMON BASINS													
							WATERSHEO II						
ABOVE GILMORE							ATLANTA SUMMIT	7600	1/29/87	46	10.7	21.3	24.2
ASPEN-HALL PASS AM							ATLANTA SUM PILLOW	7580	2/01/87	---	11.3	18.8	21.6
BANNER SUMMIT	7040	2/01/87	---	11.6E	16.0	21.7	ATLANTA TOWNSITE	5370	1/29/87	21	4.7	7.4	--
BANNER SUMMIT PILLOW	7040	2/01/87	---	9.6	16.1	19.4	BANNER SUMMIT	7040	2/01/87	---	11.6E	16.0	21.7
BEAR BASIN	5350	2/01/87	---	6.3E	9.5	13.5	BANNER SUMMIT PILLOW	7040	2/01/87	---	9.6	16.1	19.4
BEAR BASIN PILLOW	5350	2/01/87	---	5.9	8.5	13.4	BAD BEAR	4940	1/29/87	24	5.7	8.1	10.5
BIG CREEK SUMMIT	6580	2/01/87	---	15.9E	24.5	25.4	BEAR BASIN	5350	2/01/87	---	6.3E	9.5	13.5
BIG CREEK SUM PILLOW	6580	2/01/87	---	13.8	21.0	22.0	BEAR BASIN PILLOW	5350	2/01/87	---	5.9	8.5	13.4
BORAH							BEAR SAOOLE	6180	2/01/87	---	10.5E	--	21.6
BOULDER CREEK	5440	1/26/87	37	8.0	11.0	16.6	BEAR SAOOLE PILLOW	6180	2/01/87	---	9.7	15.0	21.8
BREEZY SAOOLE	5010	1/27/87	53	15.2	13.7	20.6	BENNETT MOUNTAIN	6560	2/01/87	---	6.0E	10.6	12.9
BRUNOAGE MOUNTAIN							BENNETT MTN PILLOW	6560	2/01/87	---	5.8	--	13.6
BRUNO CREEK							BIG CREEK SUMMIT	6580	2/01/87	---	15.9E	24.5	25.4
BUCK MEAOOWS							BIG CREEK SUM PILLOW	6580	2/01/87	---	13.8	21.0	22.0
CAYUSE AIRSTRIP	3500	1/27/87	25	5.6	7.1	8.8	BOGUS BASIN	6340	1/29/87	28	6.2	12.2	16.7
COOL CREEK	6250	1/27/87	74	21.4	22.8	36.6	BOGUS BASIN ROAO	5540	1/29/87	10	2.0	2.6	5.9
COOL CREEK PILLOW	6280	2/01/87	---	23.3	22.1	34.4	BOULDER CREEK	5440	1/26/87	37	8.0	11.0	16.6
COOLWATER MOUNTAIN							BRUNOAGE MOUNTAIN						
COPES CAMP							BRUNOAGE RESV PILLOW	4500	2/01/87	---	11.1	--	--
CRATER MEAOOWS	5960	1/28/87	67	19.2	21.4	30.2	CAMAS CREEK OIVIOE						
CRATER MOWS PILLOW	5960	2/01/87	---	21.5	20.5	31.6	CHIMNEY CREEK						
CROOKED FORK	3610	1/30/87	25	7.0	7.4	9.9	COUCH SUMMIT	6840	1/30/87	23	4.1	9.3	13.2
OEARWOOD SUMMIT	6860	1/29/87	56	14.6	25.7	32.2	COZY COVE	5380	1/29/87	22	5.6	9.1	11.9
OEARWOOD SUM PILLOW	6860	2/01/87	---	15.4	21.3	35.5	CRAWFORO R.S.	4860	1/30/87	9	3.0	--	6.3
DOUBBLE SPGS PASS AM							DEAGUMAN GULCH	5600	1/30/87	24	5.8	8.9	12.5
ELK BUTTE	5550	1/27/87	51	13.0	19.0	25.5	DEAQWOODO AIRSTRIP	5360	2/01/87	---	5.9E	--	11.2
ELK BUTTE PILLOW	5550	2/01/87	---	17.9	18.2	28.7	DEAQWOODO SUMMIT	6860	1/29/87	56	14.6	25.7	32.2
FISH LAKE AIRSTRIP	5650	1/27/87	65	18.5	17.7	27.0	DOLLARHOOE SH PILLOW	8420	1/29/87	32	6.1	16.9	17.2
FORTY-NINE MEAOOWS	4830	1/27/87	49	14.0	12.5	20.3	DOLLARHOOE SUMMIT	8420	2/01/87	---	7.6	16.0	17.5
GALENA SUMMIT	8780	1/30/87	34	7.0	13.0	16.4	GRAHAM GUARD STATION	5690	1/29/87	26	5.7	9.7	11.6
GALENA SUMMIT PILLOW	8780	2/01/87	---	6.5	12.7	13.2	GRAHAM G.S. PILLOW	5690	2/01/87	---	6.3	8.5	12.2
GIBBONS PASS	7100	2/01/87	43	10.1	11.2	16.0	IAHO CITY TOWNSITE	4000	1/29/87	9	1.8	3.8	4.3
GOAT LAKE							JACKSON PEAK	7070	1/29/87	39	9.4	19.2	22.4
GRANITE PEAK							JACKSON PEAK PILLOW	7070	2/01/87	---	11.1	--	20.9
HALL CREEK							LITTLE CAMAS FLAT						
HEMLOCK BUTTE	5810	1/27/87	65	19.2	21.7	34.0	MOORES CREEK SUMMIT	6100	1/29/87	44	11.0	20.2	22.6
HEMLOCK BUTTE PILLOW	5810	2/01/87	---	21.9	26.5	33.3	MOORES C SUM PILLOW	6100	2/01/87	---	10.7	23.4	22.9
HODODO BASIN	6050	1/31/87	84	26.6	26.2	34.6	PLACER CREEK						
HODODO CREEK	5900	1/31/87	75	23.0	20.6	31.7	POISON LAKE						
KIT CARSON PASTURE							PRAIRIE	4800	1/29/87	11	2.5	4.8	4.9
LEATHERMAN PASS							PRAIRIE PILLOW	4800	2/01/87	---	2.5	--	--
LEMMI PASS	7480	2/01/87	---	4.0E	--	5.5	ROAD CREEK	5380	1/29/87	18	4.0	5.7	7.4
LEMMI RIOGE	8100	2/01/87	---	4.7e	--	6.5	ROBINSON CREEK RIOGE						
LOLO PASS	5240	2/03/87	63	16.4	12.0	20.6	ROCK FLAT SUMMIT	5310	1/30/87	36	8.4	8.8	12.6
LOLO PASS PILLOW	5240	2/01/87	---	14.4	14.4	22.2	SECESH SUMMIT	6520	2/03/87	54	13.2	16.9	25.1
LOST LAKE	6110	1/27/87	82	25.8	27.9	39.1	SECESH SUMMIT PILLOW	6520	2/01/87	---	12.1	16.8	25.4
LOST LAKE PILLOW	6110	2/01/87	---	33.0	30.2	44.4	SOLOIER R.S. PILLOW	5740	1/31/87	15	2.5	8.1	9.5
MEAOW LAKE	9150	2/01/87	---	7.3	8.1	13.1	SQAUW FLAT	6240	2/01/87	---	3.3	--	--
MEAOW LAKE PILLOW	9150	2/01/87	---	7.3	--	13.4	SQAUW FLAT PILLOW	6240	2/01/87	---	10.7E	15.7	18.4
MILL CREEK SUMMIT	8800	2/01/87	---	8.0E	12.3	16.0	SQAUW MEAOOW	5900	2/03/87	57	11.8	16.5	24.3
MILL CREEK ST PILLOW							STURGILL RIDGE						
MOONSHINE	7440	1/28/87	18	2.9	5.0	7.3	THORSON CABIN						
MOONSHINE PILLOW	7440	2/01/87	---	4.5	6.2	7.5	TRINITY MOUNTAIN	7770	1/29/87	46	11.6	25.2	29.3
MOOSE CREEK	6200	1/30/87	28	6.0	6.6	12.1	TRINITY MINI PILLOW	7770	2/01/87	---	13.4	22.9	28.3</td

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85								
BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST BASINS WATERSHED IV																					
BEAR CANYON	7900	2/01/87	---	3.6E	9.8	12.4	ISLAND PARK	PILLOW	6290	2/01/87	---	6.3	18.2	11.5							
BEAR CANYON PILLOW	7900	2/01/87	---	3.0	8.6	11.4	JACKPINE CREEK		7350	1/29/87	37	8.6	--	15.2							
BENNETT MOUNTAIN	6560	2/01/87	---	6.0E	10.6	12.9	JOHNSON CREEK			NO REPORT											
BENNETT MIN PILLOW	6560	2/01/87	---	5.8	--	13.6	KILGORE		6320	1/30/87	21	3.7	7.8	8.2							
CAMAS CREEK DIVIDE		NO REPORT					LATHAM SPRINGS			NO REPORT											
CHIMNEY CREEK		NO REPORT					LAVA CREEK		7350	1/29/87	33	6.8	11.5	10.1							
COPPER BASIN	7640	2/01/87	---	1.4E	5.5	6.3	LEWIS LAKE DIVIDE		7850	1/28/87	54	14.0	27.4	28.0							
COUCH SUMMIT	6840	1/30/87	23	4.1	9.3	13.2	LOWER PEBBLE		5780	1/28/87	20	4.0	10.0	9.3							
DOLLARHIDE SUMMIT	8420	1/29/87	32	6.1	16.9	17.2	LUCKY DOG			NO REPORT											
DOLLARHIDE SM PILLOW	8420	2/01/87	---	7.6	16.0	17.5	MADISON PLATEAU		7750	2/01/87	---	10.4E	--	14.4							
DRY FORK		NO REPORT					MC REYNOLDS RESERVOIR		6720	1/29/87	32	6.8	11.0	13.1							
FAIRVIEW G.S.		NO REPORT					MINK CREEK		6410	1/28/87	26	6.8	13.7	12.4							
FISHPOLE LAKE		NO REPORT					MORAN		6750	1/30/87	32	7.3	9.2	9.4							
GALENA	7440	2/01/87	---	6.1E	11.6	13.7	MUD CREEK		7100	1/29/87	40	9.8	13.3	13.3							
GALENA PILLOW	7440	2/01/87	---	6.6	11.4	13.5	NORTH PUTNAM		7240	1/29/87	37	9.1	14.6	20.5							
GALENA NEW	7470	1/30/87	33	6.3	12.6	15.2	PACKASADDLE SPRING		8200	1/29/87	44	10.8	19.1	19.0							
GALENA SUMMIT	8780	1/30/87	34	7.0	13.0	16.4	PEBBLE CREEK		6550	1/28/87	21	4.5	9.5	11.5							
GALENA SUMMIT PILLOW	8780	2/01/87	---	6.5	12.7	13.2	PHILLIPS BENCH		8200	1/30/87	58	14.8	20.4	21.2							
GARFIELD R.S.	6560	1/29/87	12	1.9	7.1	7.4	PHILLIPS BENCH PILL.		8200	2/01/87	---	12.8	19.5	19.4							
GARFIELD R.S. PILLOW	6560	2/01/87	---	2.1	7.2	7.3	PINE CREEK PASS		6810	1/29/87	33	7.7	10.7	11.6							
GRAHAM RANCH	6270	1/30/87	23	3.6	8.6	10.0	POISON MEADOWS		8500	1/29/87	55	11.4	20.8	20.3							
HILTS CREEK	8000	1/27/87	12	2.5	7.3	7.7	PUTNAM			NO REPORT											
HILTS CREEK PILLOW	8000	2/01/87	---	3.9	6.2	8.9	SALT RIVER SUMMIT		7700	1/29/87	32	5.4	10.0	11.0							
HYNDMAN CREEK	7440	2/01/87	---	3.5E	9.4	10.0	SALT RIVER PILLOW		7700	2/01/87	---	5.2	9.2	10.9							
HYNDMAN PILLOW	7440	2/01/87	---	3.2	8.1	8.7	SAWIELL MOUNTAIN		8720	1/28/87	44	11.5	24.4	23.0							
IRON BOG		NO REPORT					SEGEWICK PEAK			NO REPORT											
IRON MINE CREEK		NO REPORT					SHEEP MOUNTAIN		6570	1/29/87	24	5.0	8.4	9.2							
LEAOBELT		NO REPORT					SHEEP MTN PILLOW		6570	2/01/87	---	5.6	10.0	10.1							
LEATHERMAN PASS		NO REPORT					SLUG CREEK DIVIDE		7230	1/28/87	27	5.8	11.5	11.3							
LITTLE CAMAS FLAT		NO REPORT					SLUG CK DVO PILLOW		7230	2/01/87	---	5.4	13.2	12.9							
LOST GARFIELD		NO REPORT					SNAKE RIVER STATION		6920	1/28/87	39	8.1	13.1	14.4							
LOST-WOOD DIVIDE	7900	2/01/87	---	6.8E	13.4	16.0	SNOW KING MTN		7660	1/29/87	36	7.6	11.4	10.3							
LOST-WOOD DVO PILLOW	7900	2/01/87	---	6.2	12.8	16.1	SOMSEN RANCH		6840	1/27/87	27	5.6	11.2	10.1							
MASCOT MINE	7780	2/01/87	---	3.8E	8.2	10.6	SOMSEN RANCH PILLOW		6800	2/01/87	---	4.8	10.6	9.3							
MOONSHINE	7440	1/28/87	18	2.9	5.0	7.3	SPRING CRK. PILLOW		9000	2/01/87	---	12.8	20.3	16.2							
MOONSHINE PILLOW	7440	2/01/87	---	4.5	6.2	7.5	STATE LINE		6660	1/29/87	35	7.4	9.3	9.9							
MOUNT BALDY	8920	1/30/87	31	5.9	12.5	14.5	SULPHUR PEAK			NO REPORT											
MULDOON	6320	1/29/87	12	1.7	4.4	5.6	TARGHEE PASS		6980	2/01/87	---	5.4E	7.8	10.1							
SAWMILL CANYON	7000	1/28/87	18	3.4	4.2	5.7	TEX CREEK		7740	2/02/87	56	15.2	17.2	17.5							
SOLDIER R.S.	5740	1/31/87	15	2.5	8.1	9.5	TEX CREEK		6650	2/01/87	---	3.6E	7.1	6.2							
SOLDIER R.S. PILLOW	4330	2/01/87	---	3.3	--	--	THUMB DIVIDE		7980	1/29/87	35	7.3	13.4	14.0							
STICKNEY MILL	7430	2/01/87	---	2.7E	5.0	6.0	TOGWOTEE PASS		9580	1/30/87	61	17.9	19.4	19.8							
STICKNEY MILL PILLOW	7430	2/01/87	---	2.1	4.3	5.4	TOGWOTEE PASS PILLOW		9580	2/01/87	---	15.2	17.0	17.0							
SWDE PEAK	7640	1/29/87	18	2.7	9.6	11.9	TOPONE			NO REPORT											
SWDE PEAK PILLOW	7640	2/01/87	---	2.9	9.5	10.2	TURPIN MEADOWS		6900	1/30/87	28	6.3	6.9	7.7							
TELFER RANCH		NO REPORT					TWITCHELL CANYON		6300	1/29/87	30	7.1	--	11.0							
VIENNA MINE	8960	1/29/87	50	11.3	23.4	25.1	TWO OCEAN PLATEAU AM			NO REPORT											
VIENNA MINE PILLOW	8960	2/01/87	---	11.6	20.1	25.1	TWO OCEAN PILLOW		9160	2/01/87	---	13.9	18.4	19.9							
WET CREEK SUMMIT	7680	1/27/87	10	1.5	5.2	7.8	VALLEY VIEW		6680	1/28/87	29	5.9	8.6	11.4							
WILLOW, BLACKFOOT, UPPER SNAKE AND PORTNEUF BASINS WATERSHED V																					
AFTON RANGER STATION	6240	1/29/87	16	3.0	4.0	3.4	SOUTHSHOE SNAKE BASIN														
ALLEN RANCH	6470	1/27/87	18	4.0	9.0	7.9															
ARIZONA	6620	2/01/87	---	7.2E	11.5	13.3	ANTELOPE RIDGE		6180	2/01/87	---	3.5E	7.5	--							
ASPEN GROVE	6500	2/01/87	---	5.7E	8.3	8.9	BADGER GULCH		6660	2/01/87	---	5.1E	9.2	8.1							
ASTER CREEK	7750	1/29/87	49	11.8	20.1	20.5	BATTLE CREEK	AM	5720	2/04/87	6	1.2	--	2.9							
AUSTIN BROTHERS RNCH	6400	1/27/87	16	3.5	8.1	6.6	BEAR CREEK		7800	2/01/87	---	6.0E	11.8	13.5							
BASE CAMP	7030	1/30/87	39	9.4	13.6	14.2	BEAR CK SNOTEL		7800	2/01/87	---	5.0	11.0	13.0							
BASE CAMP PILLOW	7030	2/01/87	---	9.6	11.0	13.0	BIG BENO		6700	1/29/87	14	2.0	8.0	6.2							
BEAVERDAM CREEK		NO REPORT					BIG BENO		7500	2/01/87	---	6.6E	--	14.2							
BIG SPRINGS	6400	1/28/87	34	7.5	12.7	14.0	BOSTETTER R.S.		7500	2/01/87	---	5.5	12.3	12.4							
BIRCH CREEK	6800	1/29/87	23	5.6	7.5	7.7	BOSTETTER RS PILLOW		7500	2/01/87	---	3.0E	6.9	7.7							
BLACK BEAR	7950	2/01/87	---	17.9E	--	26.4	BOY SCOUT CAMP			NO REPORT											
BLACK CANYON		NO REPORT					BULL BASIN	AM	5460	2/04/87	8	1.2	--	1.4							
BLACK MOOSE		NO REPORT					CEDAR CREEK			NO REPORT											
BLACKROCK	8900	2/01/87	---	13.1E	14.4	14.9	CLEAR CREEK MEADOWS			NO REPORT											
BLIND BULL SUMM AM	8650	1/29/87	44	10.1	18.6	18.3	COLUMBIA BASIN	AM	6650	1/29/87	21	3.4	6.0	6.5							
BLIND BULL PILLOW	8650	2/01/87	---	14.1	22.2	18.5	DEADLINE		7400	1/26/87	33	8.3	14.3	15.5							
BLUE LEDGE MINE	6900	2/01/87	---	4.4E	17.9	11.8	DEAOLINE SOUTH		7450	1/26/87	39	11.2	19.3	16.9							
BLUE RIOGE	6780	1/29/87	29	7.8	13.9	13.6	FAWN CREEK	AM		NO REPORT											
BONE	6200	1/29/87	13	2.5	5.9	5.6	FOX CREEK		6800	2/01/87	---	3.3E	6.9	7.5							
BROCKMAN STATION	6430	1/29/87	23	5.1	9.2	6.8	FRY CANYON			NO REPORT											
BRYAN FLAT	6420	1/29/87	27	5.6	7.2	6.4	GEORGE CREEK			NO REPORT											
CAMP CREEK	6580	1/29/87	17	3.2	6.2	7.2	GEORGE PEAK			NO REPORT											
CCC CAMP	7000	1/29/87	28	5.8	8.2	8.5	GOAT CREEK		8800	2/01/87	---	5.4E	9.9	11.7							
COTTONWOOD LAKE AM	7600	1/29/87	41	9.4	12.1	12.4	GOLDO CREEK		6600	1/29/87	10	1.30	--	3.9							
COTTONWOOD CR PILLOW	7600	2/01/87	---	10.7	--	--	HOWELL CANYON		7980	2/01/87	---	9.8E	21.2	18.2							
COULTER CREEK	7020	1/28/87	39	6.5	14.0	15.1	HOWELL CANYON PILLOW		7980	2/01/87	---	8.1	17.8	15.3							
COULTER CREEK PILLOW	7020	2/01/87	---	8.1	11.6	15.9	HUMMINGBIRD SPRINGS		8950	2/01/87	---	8.9E	--	15.5							
COLD SPRINGS		NO REPORT					HYDE PASTURE	AM	5760	2/04/87	---	.1T	--	4.7							
CRAB CREEK	6860	2/01/87	---	3.6E	--	10.8	INDIAN GROVE			NO REPORT											
CRAB CREEK PILLOW	6860	2/01/87	---	3.9	7.3	11.4	JACKS PEAK		8420	2/01/87	---	9.1E	--	14.4							
DARBY CANYON	8250	1/29/87	45	12.2	--	15.3	JOHNSTON POND		6700	2/04/87	12	2.4	--	--							
DEMPSEY CREEK		NO REPORT					LAUREL DRAW		6700	2/01/87	---	4									

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
SEVENTYSIX CREEK	7100	2/01/87	---	4.5E	7.7	8.3
SEVENTYSIX CK SNTEL	7100	2/01/87	---	2.4S	8.4	6.3
SHOSHONE BASIN	5810	2/01/87	---	2.3E	5.2	4.8
SILVER CITY	6400	2/04/87	27	7.6	12.4	11.4
SOUTH MOUNTAIN	6500	2/01/87	26	7.2	10.6	10.1
SOUTH MTN PILLOW	6500	2/01/87	---	6.8	12.5	9.6
SUBLETT		NO REPORT				
SUCCOR CREEK	AM 6100	2/04/87	---	2.6E	--	4.4
TAYLOR CANYON	6200	1/28/87	11	1.4	5.2	4.1
TOE JAM AM	AM 7700	1/29/87	12	2.0	4.7	7.4
VAUGHT RANCH	AM 5830	2/04/87	9	1.8	--	3.0
VIPONT		NO REPORT				
WAR EAGLE	7280	2/04/87	30	8.4	--	18.3
WILSON CREEK		NO REPORT				

GREAT BASIN

WATERSHED VII

CHRISTENSEN RANCH	NO REPORT					
CLIFF CANYON	NO REPORT					
CUB RIVER R.S.	5450	2/01/87	---	4.3E	--	6.6
DANIELS CREEK		NO REPORT				
DRY BASIN		NO REPORT				
DRY CREEK FLAT		NO REPORT				
EM1GRANT SUMMIT	7390	2/02/87	33	8.0	17.7	16.9
EM1GRANT SUM PILLOW	7390	2/01/87	---	8.0	--	19.3
EMIGRATION CANYON	6500	2/02/87	19	4.5	8.4	7.6
FRANKLIN BASIN	8020	1/26/87	---	8.1E	15.5	16.6
FRANKLIN 85N PILLOW		NO REPORT				
GIVEOUT	6860	1/28/87	20	3.9	11.4	8.5
GIVEOUT PILLOW	6840	2/01/87	---	3.3	11.9	8.9
GIVEOUT NEW	6930	1/28/87	16	3.2	9.8	7.6
HORSESHOE BASIN		NO REPORT				
LIBERTY SPRING	8600	2/01/87	---	10.1E	27.3	24.2
LITTLE BEAVER	6790	1/28/87	20	4.3	13.1	10.5
LOWER ELKHORN		NO REPORT				
LOWER HOME CANYON	7640	1/29/87	23	4.7	10.8	9.7
MONTPELIER CREEK	6540	2/01/87	---	2.6E	7.5	5.7
OXFORD MOUNTAIN	6800	2/01/87	---	2.7E	--	--
OXFORD SPRING	6740	2/01/87	---	2.7E	--	7.9
OXFORD SPRING PILLOW	6740	2/01/87	---	2.2	8.8	8.9
STRAWBERRY CREEK	5820	2/02/87	16	4.0	9.4	7.5
STRAWBERRY-MINK OVO	6720	2/01/87	---	7.6E	15.5	14.8
UPPER ELKHORN		NO REPORT				
UPPER HOME CANYON	8560	1/29/87	38	9.3	18.1	15.8
WHISKEY FLAT		NO REPORT				
WILLOW FLAT	6070	2/02/87	22	5.3	--	11.2
WORM CREEK		NO REPORT				

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State

Idaho Department of Water Resources
Soil and Water Conservation Districts of Idaho

Federal

U.S. Department of Agriculture
Forest Service
U.S. Department of Army
Corps of Engineers
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey, Water Resources Division
Shoshone-Bannock Tribal Council

Local

Big Lost River Irrigation District
Big Wood Irrigation Company
Boise Project Board of Control
Idaho Water District #01
Lewiston Orchards Irrigation District
Little Wood River Irrigation District
North Board of Control — Owyhee Project
Salmon Falls Irrigation Company
South Board of Control — Owyhee Project

Private

Cyprus Mining Company
FMC Corporation
Idaho Power Company
Le Bois Resort
Washington Water Power Company

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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